

## ABSTRACT OF THE DISCLOSURE

31) Protective suits are used to protect the wearer against hazardous materials such as chemicals, pathogens, radioactive particles, electromagnetism, physical trauma and for rain protection. They are used to protect the wearer's surrounding in cleanrooms. Medical protective suits are used to prevent the spread of pathogens from the wearer.

Unfortunately, they can cause heat stress by reducing air circulation. This invention discloses a protective suit with a breathing mask and dual one-way valves to draw air through the suit's interior using the forces generated by the wearer's breathing. Filters can be placed in the suit, or the suit can be made of a filter material to protect the wearer and the surroundings. The disclosed suit is lighter, less expensive to produce and more mobile than prior-art protective suit designs that use powered or externally supplied ventilation and cooling devices.